

In The Claims:

1. (Currently amended) ~~Seed~~ A seed of alfalfa plant designated J-101 and having representative seed deposited with American Type Culture Collection (ATCC) with Accession No. PTA-4814.
2. (Currently amended) [[The]] An alfalfa plant J-101 or parts thereof produced by growing the seed of claim 1.
3. (Original) The alfalfa plant J-101 or parts thereof of claim 2, comprising pollen, ovule, flowers, shoots, roots, or leaves.
4. (Previously presented) The alfalfa plant J-101 of claim 2 further comprising progeny thereof, wherein said progeny comprises SEQ ID NO:1 and SEQ ID NO:2.
5. (Previously presented) The alfalfa plant J-101 of claim 4, wherein the genome of said alfalfa plant J-101 comprises SEQ ID NO:3 and SEQ ID NO:4.
6. (Original) The alfalfa plant J-101 or seed or parts thereof of claim 4, the genome of which produces an amplicon comprising SEQ ID NO:1 or SEQ ID NO:2 in a DNA amplification method.
- 7-9. (Canceled)
10. (Currently amended) A method of producing a plant that tolerates application of glyphosate herbicide comprising:
 - (a) sexually crossing a first glyphosate tolerant alfalfa plant of event J-101, and a second parent plant that lacks the tolerance to glyphosate herbicide, thereby producing a plurality of first progeny plants, wherein event J-101 is an event, a representative seed of which is deposited as ATCC accession no. PTA-4814; and
 - (b) selecting a first progeny plant that is tolerant to application of glyphosate; and

- (c) selfing said first progeny plant, thereby producing a plurality of second progeny plants; and
- (d) selecting from said second progeny plants a glyphosate tolerant plant.

11-12. (Canceled)

13. (Original) An alfalfa plant comprising a glyphosate tolerant trait that is genetically linked to a complement of a marker polynucleic acid, wherein said marker polynucleic acid molecule comprises SEQ ID NO:1 or SEQ ID NO:2.

14-26. (Canceled)

27. (Previously presented) An alfalfa plant or seed, the genome of which produces an amplicon comprising a DNA molecule selected from the group consisting of SEQ ID NO:1 and SEQ ID NO:2 when tested in a DNA amplification method.

28-32. (Canceled)

33. (Previously presented) The alfalfa plant of claim 13, wherein said alfalfa plant comprises SEQ ID NO:3 and SEQ ID NO:4.

34. (Currently amended) [[An]] A glyphosate tolerant alfalfa plant comprising incorporated into the plant's genome a DNA insert encoding EPSPS, wherein the sequence overlapping the junction between the alfalfa genomic DNA and the 5'-end of the insert is comprised of SEQ ID NO:1, and the sequence overlapping the junction between the alfalfa genomic DNA and the 3'-end of the insert is comprised of SEQ ID NO:2.

35. (Currently amended) The glyphosate tolerant alfalfa plant of claim 35 34, wherein said plant is progeny of an alfalfa plant J 101 having representative seed deposited with American Type Culture Collection (ATCC) with Accession No. PTA 4814 or DNA-containing part thereof, wherein the sequence overlapping the junction between the

alfalfa genomic DNA and the 5'-end of the insert comprises SEQ ID NO:3, and the sequence overlapping the junction between the alfalfa genomic DNA and the 3'-end of the insert comprises SEQ ID NO:4.

36. (New) A method of producing a glyphosate tolerant alfalfa plant comprising:
- (a) crossing the plant of claim 34 with another alfalfa plant; and
 - (b) selecting glyphosate tolerant progeny by analyzing for the presence of at least one nucleotide sequence selected from the group consisting of SEQ ID NOS:1-4.